



U.S. Department of Energy  
Energy Efficiency and Renewable Energy

# CHP Partners' Meeting

## Department of Energy's CHP Program

Merrill Smith

Office of Distributed Energy and Electric Reliability

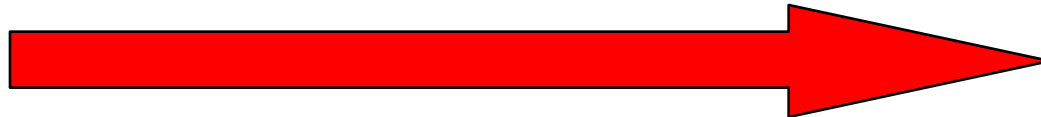
U.S. Department of Energy



# CHP Vision and Technology Roadmap

By 2010, **double** the amount of CHP capacity in the United States

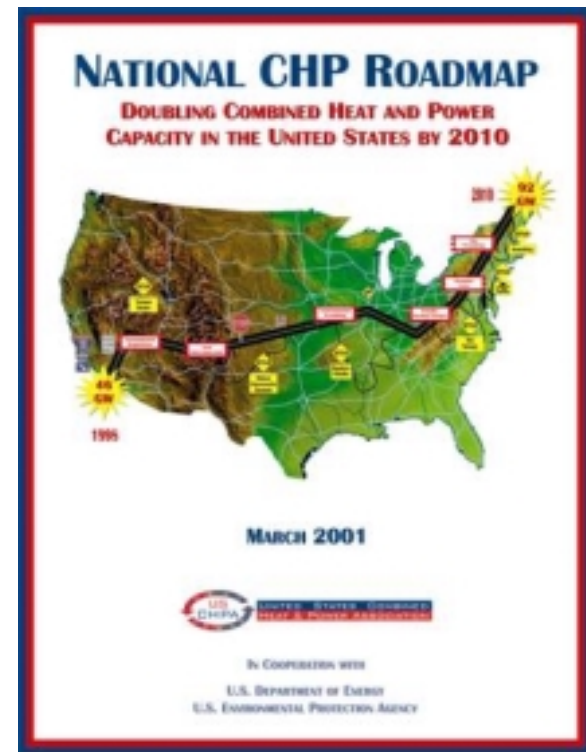
1998, 46GW



2010, 92GW

Our CHP activities are guided by the actions identified in the National CHP Roadmap as those items required of us to meet the CHP Goal

- Raise CHP Awareness
- Eliminate Regulatory and Institutional Barriers
- Develop CHP Markets and Technologies



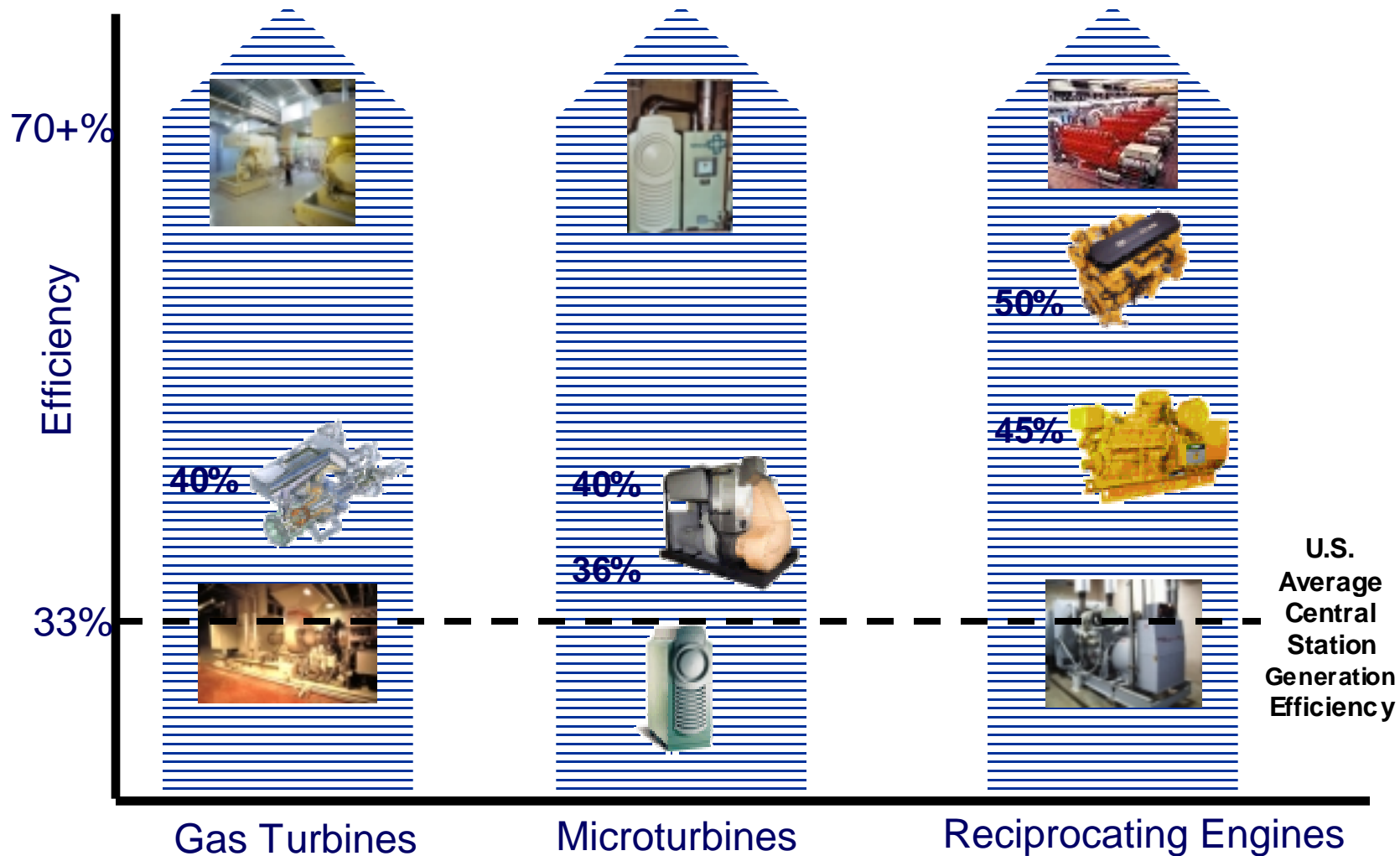


## DEER Activities Directly Supporting the Advancement of the CHP Goal

- Improved Generation and Heat Utilization
- Integrated Energy Systems
- CHP Outreach and Market Development
- End Use Applications
- Analysis and Evaluation Tools



# Improved Generation and Heat Utilization and Integrated CHP Systems





## CHP Solicitation Resulted in 18 Awards to Support CHP Outreach and Market Development

- Raising CHP Awareness
  - Regional initiatives
  - Trade shows, meetings and educational activities for targeted audiences
- Eliminating Regulatory, Institutional and Technical Barriers
  - Analysis and recommendations on utility interconnection and tariff practices, installation costs, financing options, lessons learned, electric rate structures, air permitting barriers, output-based regulations, and pricing scenarios
- Developing CHP Markets
  - Analyses of opportunities for CHP in targeted market segments
  - Quantification of Installed CHP Capacity
- Distributed Generation Analysis
  - Spreadsheet calculator on CHP emissions benefits
  - Preliminary environmental permitting screening tools



# Regional Initiatives and Application Centers Facilitate CHP Outreach and Market Development

## University of Illinois-Chicago: Midwest Regional CHP Applications Center

- facilitate CHP projects, technical assistance
- region-specific information, application knowledge



[www.chpcentermw.org/home.html](http://www.chpcentermw.org/home.html)

### **SOLICITATION CURRENTLY OPEN**

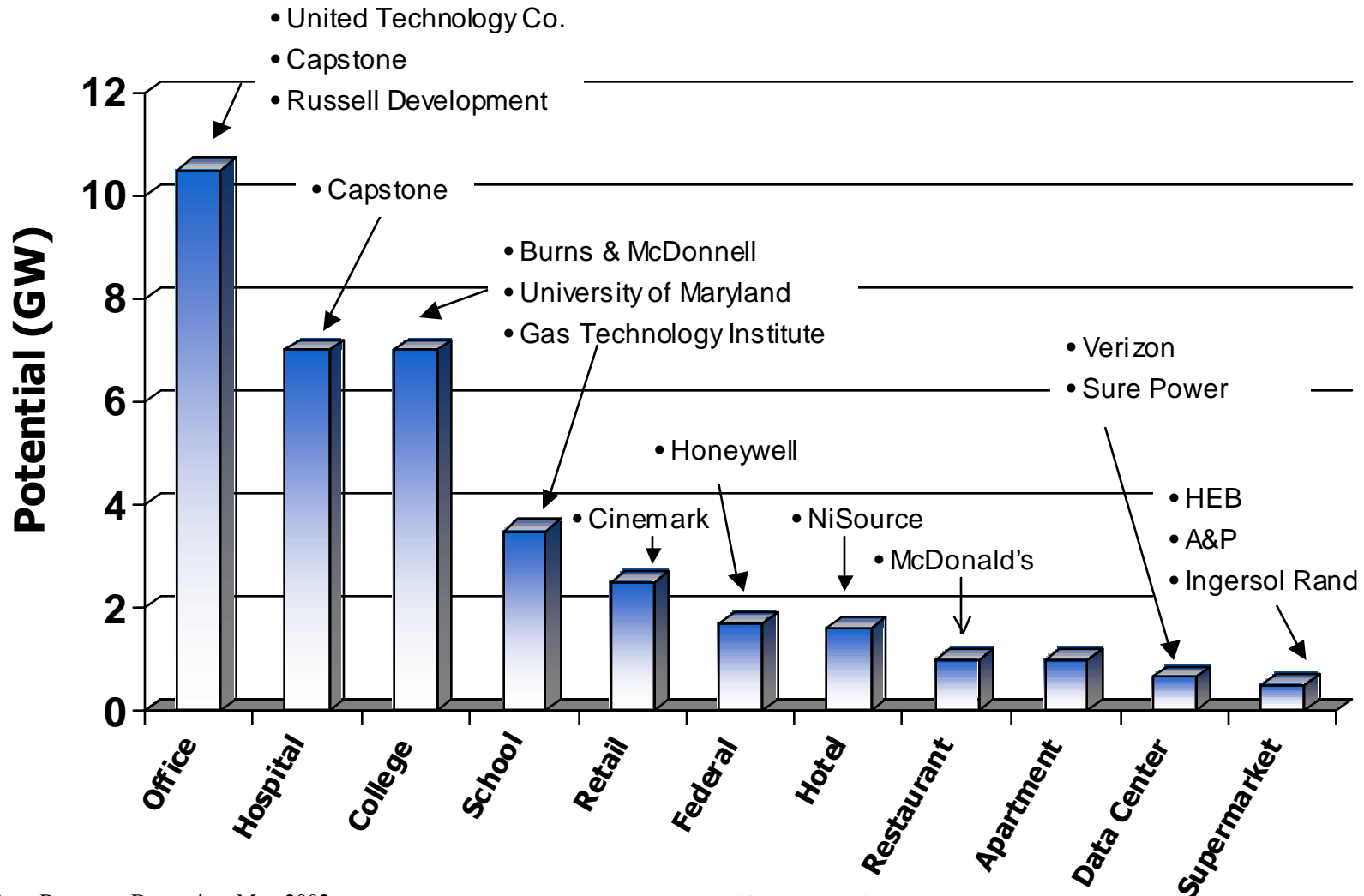
State Energy Program (SEP) – CHP Topic is Regional Combined Cooling, Heating, and Power Application Centers

**CLOSES MAY 9, 2003**

Web site: <http://e-center.doe.gov>



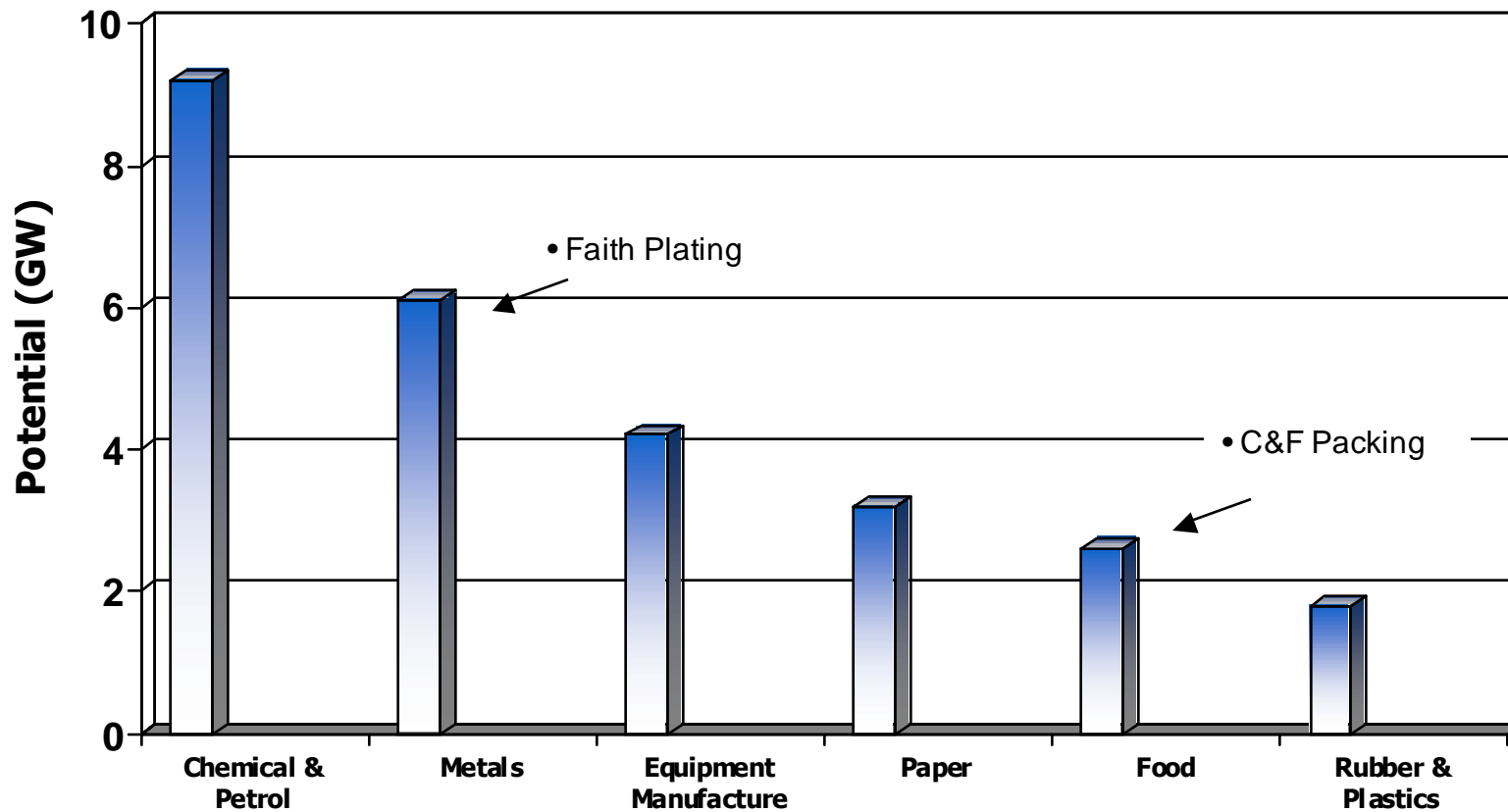
# End Use Applications - Current Projects Targeting Market Sectors



Data from Resource Dynamics, May 2002, *Draft Cooling, Heating and Power for Buildings: A Market Assessment*



# End Use Applications - Current Projects Targeting Industrial Sector



Data from Resource Dynamics, May 2002, *Draft Cooling, Heating and Power for Industry: A Market Assessment*



# Information Clearinghouse and Networking

**NEW**

[www.eere.energy.gov/der](http://www.eere.energy.gov/der)

- Technical publications
- Workshops and conferences
- Technology planning
- Cost-shared RD&D
- Solicitation announcements